AMENDMENTS TO CLAIMS

Please amend the claims as indicated hereinafter.

 (Currently Amended) A method of managing a network entity that is initiated by the network entity, the method comprising:

performing, at the network entity, the computer-implemented steps of:

monitoring the network entity;

periodically evaluating, at the network entity, one or more specified conditions at of the same network entity;

when one or more of the specified conditions are satisfied, then:

gathering specified information from the network entity;

preparing a message that includes the specified information and the

specified conditions that were satisfied; and

sending the message to one of a management application or a management proxy.

(Currently Amended) A method of managing a network entity that is initiated by the network entity, the method comprising:

performing, at a management proxy, the computer-implemented steps of:

receiving a request from a management application for interaction with the network entity;

<u>based at least upon the request from the management application, creating a</u> management request that includes a network element identifier;

storing a-said management request in the management proxy while awaiting a poll for the management request from the network entity;

receiving a poll message from the network entity, wherein each said poll message requests requesting from the management proxy any available management requests applicable to the network entity;

in response to the poll message:

selecting one or more management requests <u>stored</u> in the <u>management</u> proxy that match the network entity; and

delivering the selected one or more management requests to the network entity;

wherein the management proxy is external to the management application and the network entity.

 (Previously Presented) A method as recited in Claim 2, further comprising performing, at the management proxy:

receiving a responsive management message from the network entity;

storing the responsive management message in the management proxy;

receiving a second poll message from the management application, wherein the second poll message requests any responsive management messages applicable to the management application;

in response to the second poll message:

selecting one or more responsive management messages that match the management application; and

delivering the selected one or more responsive management messages to the management application.

- 4. (Previously Presented) A method as recited in any of Claims 1 or 2, wherein the network entity is within a private network that is managed by a network service provider, and wherein the management proxy and the management application are within a public network that is owned or operated by the network service provider.
- (Original) A method as recited in any of Claims 1 or 2, wherein the network entity is a service appliance.
- (Original) A method as recited in any of Claims 1 or 2, wherein the network entity is a switch or router.
- 7-27. (Canceled)

- (Currently Amended) A method for a network element to initiate notification about an anomalous condition, comprising:
 - at the network element or a proxy server, performing the computer-implemented steps of:
 receiving first definitions of one or more triggers, each comprising one or more
 conditions:

receiving second definitions of report information;

- determining that any-at least one of the one or more triggers defined by the first

 definitions is satisfied, and in response thereto, initiating communication

 of at least some of the report information defined by the second definitions
 to a management proxy or a management application.
- (Original) A method as recited in Claim 28, wherein each of the conditions comprises an event, alarm, combination of events or alarms, or pattern of events or alarms.
- (Original) A method as recited in Claim 28, wherein each of the conditions comprises a state of the network element.
- 31. (Original) A method as recited in Claim 28, wherein the report information describes any of the triggers that were determined as satisfied.
- 32. (Original) A method as recited in Claim 28, wherein the report information comprises any of a core dump from the network element, a configuration of the network element, state information for the network element, or a log of the network element.
- 33. (Previously Presented) A method as recited in Claim 28, wherein the steps are performed by the proxy server, wherein the proxy server is logically separate from the network element, wherein the proxy server manages notifications for a plurality of network elements.
- 34. (Currently Amended) A method for a network element to initiate notification to a management point about an anomalous condition, comprising the computer-implemented steps of:
 - requesting a management gateway that is communicatively coupled to the network element to provide one or more application requests for the network element that have been stored at the management gateway by an application;

- in response to said requesting, receiving from the management gateway at least a particular application request:
- in response to receiving an-the particular application request, initiating at the network element a communication session between the network element and the management application for enabling the network element to reply to the application request.
- 35. (Original) A method as recited in Claim 34, wherein the steps are performed by a server that is logically separate from the network element and communicatively coupled to the management gateway.
- 36. (Original) A method as recited in Claim 34, further comprising the step of initiating at the network element communication of at least some of the report information that is responsive to the application request.
- 37. (Original) A method as recited in Claim 34, wherein each of the application requests comprises first definitions of one or more triggers, each comprising one or more conditions, and second definitions of report information; and further comprising the step of determining that any of the triggers is satisfied, and in response thereto, initiating at the network element communication of at least some of the report information.
- 38. (Original) A method as recited in Claim 37, wherein each of the conditions comprises an event, alarm, combination of events or alarms, or pattern of events or alarms.
- (Original) A method as recited in Claim 37, wherein each of the conditions comprises a state of the network element.
- (Original) A method as recited in Claim 37, wherein the report information describes any
 of the triggers that were determined as satisfied.
- 41. (Original) A method as recited in Claim 37, wherein the report information comprises any of a core dump from the network element, a configuration of the network element, state information for the network element, or a log of the network element.

42. (Currently Amended) A computer-readable storage medium storing one or more instructions for self-initiated management of a network entity, wherein the one or more instructions, when executed by one or more processors, cause:

performing, at the network entity, the computer-implemented steps of:

monitoring the network entity;

periodically evaluating, at the network entity, one or more specified conditions at of the same network entity;

when one or more of the specified conditions are satisfied, then:

gathering specified information from the network entity;

preparing a message that includes the specified information and the specified conditions that were satisfied; and

sending the message to one of a management application or a management proxy.

43. (Currently Amended) A computer-readable storage medium storing one or more instructions for self-initiated management of a network entity, wherein the one or more instructions, when executed by one or more processors, cause:

performing, at a management proxy, the computer-implemented steps of:

receiving a request from a management application for interaction with the network entity:

based at least upon the request from the management application, creating a management request that includes a network element identifier;

storing a-said management request in the management proxy while awaiting a poll for the management request from the network entity:

receiving a poll message from the network entity, wherein each said poll message
requests-requesting from the management proxy any available
management requests applicable to the network entity;

in response to the poll message:

selecting one or more management requests stored in the management

proxy that match the network entity; and
delivering the selected one or more management requests to the network
entity:

wherein the management proxy is external to the management application and the network entity.

44. (Previously Presented) The computer-readable storage medium as recited in Claim 43, further comprising one or more instructions that, when executed by one or more processors, cause the management proxy to perform the steps of:

receiving a responsive management message from the network entity;
storing the responsive management message in the management proxy;
receiving a second poll message from the management application, wherein the second
poll message requests any responsive management messages applicable to the
management application;

in response to the second poll message:

selecting one or more responsive management messages that match the management application; and

delivering the selected one or more responsive management messages to the management application.

- 45. (Previously Presented) The computer-readable storage medium as recited in any of Claims 42 or 43, wherein the network entity is within a private network that is managed by a network service provider, and wherein the management proxy and the management application are within a public network that is owned or operated by the network service provider.
- 46. (Previously Presented) The computer-readable storage medium as recited in any of Claims 42 or 43, wherein the network entity is a service appliance.
- 47. (Previously Presented) The computer-readable storage medium as recited in any of Claims 42 or 43, wherein the network entity is a switch or router.
- 48. (Currently Amended) A computer-readable storage medium storing one or more instructions for a network element to initiate notification about an anomalous condition, wherein the one or more instructions, when executed by one or more processors, cause:

at the network element or a proxy server, performing the computer-implemented steps of:

receiving first definitions of one or more triggers, each comprising one or more conditions:

receiving second definitions of report information;

- determining that any-at least one of the one or more triggers defined by the first

 definitions is satisfied, and in response thereto, initiating communication

 of at least some of the report information defined by the second definitions
 to a management proxy or a management application.
- 49. (Previously Presented) The computer-readable storage medium as recited in Claim 48, wherein each of the conditions comprises an event, alarm, combination of events or alarms, or pattern of events or alarms.
- (Previously Presented) The computer-readable storage medium as recited in Claim 48, wherein each of the conditions comprises a state of the network element.
- (Previously Presented) The computer-readable storage medium as recited in Claim 48,
 wherein the report information describes any of the triggers that were determined as satisfied.
- 52. (Previously Presented) The computer-readable storage medium as recited in Claim 48, wherein the report information comprises any of a core dump from the network element, a configuration of the network element, state information for the network element, or a log of the network element.
- 53. (Previously Presented) The computer-readable storage medium as recited in Claim 48, wherein the one or more instructions, when executed by one or more processors, cause the steps to be performed by the proxy server, wherein the proxy server is logically separate from the network element, wherein the proxy server manages notifications for a plurality of network elements.
- 54. (Currently Amended) A computer-readable storage medium storing one or more instructions for a network element to initiate notification to a management point about an anomalous condition, wherein the one or more instructions, when executed by one or more processors, cause:

- requesting a management gateway that is communicatively coupled to the network element to provide one or more application requests for the network element that have been stored at the management gateway by an application;
- in response to said requesting, receiving from the management gateway at least a particular application request;
- in response to receiving an-the particular application request, initiating at the network element a communication session between the network element and the management application for enabling the network element to reply to the application request.
- 55. (Previously Presented) The computer-readable storage medium as recited in Claim 54, wherein the one or more instructions, when executed by one or more processors, cause the steps to be performed by a server that is logically separate from the network element and communicatively coupled to the management gateway.
- 56. (Previously Presented) The computer-readable storage medium as recited in Claim 54, wherein the one or more instructions, when executed by one or more processors, further cause initiating at the network element communication of at least some of the report information that is responsive to the application request.
- 57. (Previously Presented) The computer-readable storage medium as recited in Claim 54, wherein each of the application requests comprises first definitions of one or more triggers, each comprising one or more conditions, and second definitions of report information; and further comprising the step of determining that any of the triggers is satisfied, and in response thereto, initiating at the network element communication of at least some of the report information.
- 58. (Previously Presented) The computer-readable storage medium as recited in Claim 57, wherein each of the conditions comprises an event, alarm, combination of events or alarms, or pattern of events or alarms.
- (Previously Presented) The computer-readable storage medium as recited in Claim 57, wherein each of the conditions comprises a state of the network element.

- 60. (Previously Presented) The computer-readable storage medium as recited in Claim 57, wherein the report information describes any of the triggers that were determined as satisfied.
- 61. (Previously Presented) The computer-readable storage medium as recited in Claim 57, wherein the report information comprises any of a core dump from the network element, a configuration of the network element, state information for the network element, or a log of the network element.